

PROCESS FOR PURIFICATION OF AROMATIC MONOMERS

ABSTRACT OF THE INVENTION

5 Processes using heterogeneous adsorbents are disclosed for
purification of aromatic monomers such as are typically produced
by dehydrogenation of suitable benzenoid hydrocarbons, by
passing a stream of ethylenically unsaturated aromatic monomer
and impurities comprising at least one substituted aromatic
10 compound having the same or similar carbon content in which a
substituent moiety is acetylenically unsaturated, through a
particulate bed of predominantly a support material having high
surface area on which is dispersed at least one metallic element.
Selective adsorption and/or complexing of the contained
15 impurities with the adsorbent is continued until levels of a
selected impurity in the effluent stream increase to a
predetermined level. Thereafter the resulting bed of adsorbent is
regenerated in the presence of a reducing gas containing
dihydrogen to effect release of the contained impurities from the
20 adsorbent.